

## ABSTRACT

A system for monitoring blood pressure and other physiologic parameters is provided. The system is designed such that it can be delivered to the patient with ease and minimal invasion. The system contains at least one self contained implantable sensing device consisting of a sensor, an electrical circuit for signal conditioning and magnetic telemetry, a biocompatible outer surface and seal, an anchoring method, and an external readout device. The implant is small in size so that it may be delivered to the desired location and implanted using a catheter, although direct surgical implantation is also possible. The circuit, sensor, and antenna for telemetry are packaged together and sealed hermetically to the biologic environment. The larger readout unit remains outside the body but proximal to the implant for minimizing communication distance.